

Regional HIV/AIDS Epidemiologic Profile of Essex County, Massachusetts: FY 2008

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2007 Essex County, Massachusetts

	N	%
People Living with HIV/AIDS	1,323	59%
People Reported with HIV or AIDS who are Deceased	911	41%
Total Number of People Reported with HIV Infection or AIDS	2,234	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 2. Average annual rate of HIV infection diagnosis from 2004 to 2006 and rate of people living with HIV/AIDS on 12/31/07¹: Essex County, Massachusetts

Average annual HIV diagnosis rate from 2004–2006	Average Rate per 100,000	Average Number of HIV Diagnoses
Essex County, MA	9 per 100,000	67
Massachusetts Total	13 per 100,000	857
Rate of people living with HIV/AIDS on 12/31/07	Rate per 100,000	Number of People Living with HIV/AIDS
Essex County, MA	183 per 100,000	1,324
Massachusetts Total	267 per 100,000	16,977

¹ Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 1999–2006, Essex County, Massachusetts

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
1999	984	41	96
2000	1,040	36	92
2001	1,077	40	77
2002	1,127	35	85
2003	1,167	33	73
2004	1,226	21	80
2005	1,279	19	72
2006	1,305	24	50

¹ Number of People living with HIV/AIDS on 12/31 of each year

² Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis
Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 4. People diagnosed with HIV infection from 2004–2006¹ and people living with HIV/AIDS on December 31, 2007 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Essex County, Massachusetts

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	131	65%	871	66%
Female	71	35%	453	34%
Place of Birth:	N	%	N	%
US	113	56%	832	63%
Puerto Rico/US Dependency ²	22	11%	243	18%
Non-US	67	33%	249	19%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	76	38%	637	48%
Black (non-Hispanic)	46	23%	191	14%
Hispanic	77	38%	471	36%
Other/Undetermined ³	3	1%	25	2%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	53	26%	375	28%
Injection Drug Use (IDU)	24	12%	326	25%
MSM/IDU	4	2%	31	2%
Heterosexual Sex	24	12%	212	16%
Other	1	0%	36	3%
Total Undetermined	96	48%	344	26%
• Presumed Heterosexual Sex ⁴	57	28%	227	17%
• Undetermined ⁵	39	19%	117	9%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2007	
Under 13	1	<1%	7	1%
13 to 19	1	<1%	18	1%
20 to 24	12	6%	12	1%
25 to 29	17	8%	41	3%
30 to 34	34	17%	80	6%
35 to 39	44	22%	166	13%
40 to 44	34	17%	287	22%
45 to 49	28	14%	297	22%
50 to 54	17	8%	210	16%
55 to 59	8	4%	92	7%
60+	6	3%	114	9%
TOTAL	202	100%	1,324	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 5. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: Essex County, Massachusetts

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	500	57%	137	30%
Black Non-Hispanic	96	11%	95	21%
Hispanic	261	30%	210	46%
Other/Undetermined ¹	14	2%	11	2%
Total	871	100%	453	100%

¹ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 6. People living with HIV/AIDS on December 31, 2007 by gender and exposure mode: Essex County, Massachusetts

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	375	43%	N/A	N/A
Injection drug use (IDU)	210	24%	116	26%
MSM/IDU	31	4%	N/A	N/A
Heterosexual sex	52	6%	160	35%
Other	23	3%	13	3%
Total Undetermined	180	21%	164	36%
• Presumed heterosexual sex ¹	102	12%	125	28%
• Undetermined ²	78	9%	39	9%
Total	871	100%	453	100%

¹ Heterosexual sex with partners with unknown risk and HIV status

² Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up; N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Essex County, Massachusetts, before 1999, 1999–2006¹

	Male		Female		Total
	N	%	N	%	
< 1999	1,146	72%	439	28%	1,585
1999	70	73%	26	27%	96
2000	61	66%	31	34%	92
2001	46	60%	31	40%	77
2002	57	67%	28	33%	85
2003	46	63%	27	37%	73
2004	50	63%	30	38%	80
2005	47	65%	25	35%	72
2006 ²	34	68%	16	32%	50

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Essex County, Massachusetts, before 1999, 1999–2006¹

	White NH		Black NH		Hispanic		Other/ Undetermined ²		Total
	N	%	N	%	N	%	N	%	
< 1999	989	62%	133	8%	456	29%	7	<1%	1,585
1999	54	56%	7	7%	32	33%	3	3%	96
2000	34	37%	17	18%	34	37%	7	8%	92
2001	32	42%	20	26%	22	29%	3	4%	77
2002	32	38%	18	21%	31	36%	4	5%	85
2003	25	34%	17	23%	31	42%	0	0%	73
2004	30	38%	16	20%	33	41%	1	1%	80
2005	24	33%	19	26%	27	38%	2	3%	72
2006 ³	22	44%	11	22%	17	34%	0	0%	50

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ 2006 data are preliminary

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Essex County, Massachusetts, before 1999, 1999–2006¹

	US		Puerto Rico/ US Dependency ²		Non-US		Total
	N	%	N	%	N	%	
< 1999	1170	74%	292	18%	123	8%	1,585
1999	64	67%	18	19%	14	15%	96
2000	49	53%	17	18%	26	28%	92
2001	41	53%	13	17%	23	30%	77
2002	46	54%	16	19%	23	27%	85
2003	39	53%	13	18%	21	29%	73
2004	47	59%	12	15%	21	26%	80
2005	35	49%	8	11%	29	40%	72
2006 ³	31	62%	2	4%	17	34%	50

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

³ 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Essex County, Massachusetts, before 1999, 1999–2006¹

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ²		Undeter- mined ³		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	472	30%	602	38%	59	4%	217	14%	86	5%	91	6%	58	4%	1,585
1999	25	26%	22	23%	3	3%	12	13%	1	1%	27	28%	6	6%	96
2000	21	23%	21	23%	1	1%	15	16%	2	2%	21	23%	11	12%	92
2001	22	29%	8	10%	2	3%	16	21%	1	1%	20	26%	8	10%	77
2002	21	25%	15	18%	1	1%	8	9%	1	1%	27	32%	12	14%	85
2003	20	27%	16	22%	1	1%	9	12%	0	0%	14	19%	13	18%	73
2004	20	25%	14	18%	1	1%	9	11%	1	1%	22	28%	13	16%	80
2005	20	28%	6	8%	3	4%	11	15%	0	0%	21	29%	11	15%	72
2006 ⁴	13	26%	4	8%	0	0%	4	8%	0	0%	14	28%	15	30%	50

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

² Heterosexual sex with partners with unknown risk and HIV status

³ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

⁴ 2006 data are preliminary

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Essex County, Massachusetts, 1999–2006¹

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Year:	N	N	%
1999	29	96	30%
2000	30	92	33%
2001	33	77	43%
2002	25	85	29%
2003	21	73	29%
2004	34	80	43%
2005	17	72	24%
2006	18	50	36%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Essex County, Massachusetts, 2004–2006¹

	HIV and AIDS diagnosed within 2 months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within 2 months
Gender:	N	N	%
Male	54	131	41%
Female	15	71	21%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	25	76	33%
Black (non-Hispanic)	15	46	33%
Hispanic	27	77	35%
Other/Undetermined ²	2	3	67%
Place of Birth:	N	N	%
US	34	113	30%
Puerto Rico/US Dependencies ³	6	22	27%
Non-US	29	67	43%
Total	69	202	34%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

³ Ninety-five percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 4% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/08